APPENDIX B

Document Type Definition (DTD)

The following is a DTD for IMS transaction definitions according to an embodiment of the invention.

```
<?xml version="1.0" encoding="UTF-8" ?>

<!-- XMI Automatic DTD Generation      -->
<!-- Metamodel: macro                  -->
<!-- ____________________________________________________ -->
<!--                                                      -->
<!-- XMI is the top-level XML element for XMI transfer text -->
<!-- ____________________________________________________ -->

<!ELEMENT XMI (XMI.header, XMI.content?, XMI.difference*,
        XMI.extensions*) >
<!ATTLIST XMI
        xmi.version CDATA #FIXED "1.0"
        timestamp CDATA #IMPLIED
        verified (true | false) #IMPLIED
>

<!-- ____________________________________________________ -->
<!--                                                      -->
<!-- XMI.header contains documentation and identifies the model, -->
<!-- metamodel, and metametamodel                         -->
<!-- ____________________________________________________ -->

<!ELEMENT XMI.header (XMI.documentation?, XMI.model*, XMI.metamodel*,
            XMI.metametamodel*) >

<!-- ____________________________________________________ -->
<!--                                                      -->
<!-- documentation for transfer data                      -->
<!-- ____________________________________________________ -->

<!ELEMENT XMI.documentation (#PCDATA | XMI.owner | XMI.contact |
                XMI.longDescription | XMI.shortDescription |
                XMI.exporter | XMI.exporterVersion |
                XMI.notice)* >

<!ELEMENT XMI.owner ANY >
```


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```
<!ELEMENT XMI.contact ANY >
<!ELEMENT XMI.longDescription ANY >
<!ELEMENT XMI.shortDescription ANY >
<!ELEMENT XMI.exporter ANY >
<!ELEMENT XMI.exporterVersion ANY >
<!ELEMENT XMI.exporterID ANY >
<!ELEMENT XMI.notice ANY >

<!-- ____________________________________________________ -->
<!--                                                      -->
<!-- XMI.element.att defines the attributes that each XML element -->
<!-- that corresponds to a metamodel class must have to conform to -->
<!-- the XMI specification.                               -->
<!-- ____________________________________________________ -->

<!ENTITY % XMI.element.att
        'xmi.id ID #IMPLIED xmi.label CDATA #IMPLIED xmi.uuid
         CDATA #IMPLIED ' >

<!-- ____________________________________________________ -->
<!--                                                      -->
<!-- XMI.link.att defines the attributes that each XML element that -->
<!-- corresponds to a metamodel class must have to enable it to -->
<!-- function as a simple XLink as well as refer to model -->
<!-- constructs within the same XMI file.                 -->
<!-- ____________________________________________________ -->

<!ENTITY % XMI.link.att
        'xml:link CDATA #IMPLIED inline (true | false) #IMPLIED
         actuate (show | user) #IMPLIED href CDATA #IMPLIED role
         CDATA #IMPLIED title CDATA #IMPLIED show (embed | replace
         | new) #IMPLIED behavior CDATA #IMPLIED xmi.idref IDREF
         #IMPLIED xmi.uuidref CDATA #IMPLIED' >

<!-- ____________________________________________________ -->
<!--                                                      -->
<!-- XMI.model identifies the model(s) being transferred  -->
<!-- ____________________________________________________ -->

<!ELEMENT XMI.model ANY >
```


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```
<!ATTLIST XMI.model
        %XMI.link.att;
        xmi.name    CDATA #REQUIRED
        xmi.version  CDATA #IMPLIED
>

<!-- ____________________________________________________________ -->
<!--                                                              -->
<!-- XMI.metamodel identifies the metamodel(s) for the transferred -->
<!-- data                                                         -->
<!-- ____________________________________________________________ -->

<!ELEMENT XMI.metamodel ANY >
<!ATTLIST XMI.metamodel
        %XMI.link.att;
        xmi.name    CDATA #REQUIRED
        xmi.version  CDATA #IMPLIED
>

<!-- ____________________________________________________________ -->
<!--                                                              -->
<!-- XMI.metametamodel identifies the metametamodel(s) for the    -->
<!-- transferred data                                             -->
<!-- ____________________________________________________________ -->

<!ELEMENT XMI.metametamodel ANY >
<!ATTLIST XMI.metametamodel
        %XMI.link.att;
        xmi.name    CDATA #REQUIRED
        xmi.version  CDATA #IMPLIED
>

<!-- ____________________________________________________________ -->
<!--                                                              -->
<!-- XMI.content is the actual data being transferred             -->
<!-- ____________________________________________________________ -->

<!ELEMENT XMI.content ANY >

<!-- ____________________________________________________________ -->
<!--                                                              -->
<!-- XMI.extensions contains data to transfer that does not conform -->
<!-- to the metamodel(s) in the header                            -->
<!-- ____________________________________________________________ -->

<!ELEMENT XMI.extensions ANY >
```

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```
<!ATTLIST XMI.extensions
        xmi.extender CDATA #REQUIRED
>

<!-- ____________________________________________________________ -->
<!--                                                              -->
<!-- extension contains information related to a specific model   -->
<!-- construct that is not defined in the metamodel(s) in the header -->
<!-- ____________________________________________________________ -->

<!ELEMENT XMI.extension ANY >
<!ATTLIST XMI.extension
        %XMI.element.att;
        %XMI.link.att;
        xmi.extender   CDATA #REQUIRED
        xmi.extenderID CDATA #REQUIRED
>

<!-- ____________________________________________________________ -->
<!--                                                              -->
<!-- XMI.difference holds XML elements representing differences to a -->
<!-- base model                                                   -->
<!-- ____________________________________________________________ -->

<!ELEMENT XMI.difference (XMI.difference | XMI.delete | XMI.add |
                XMI.replace)* >
<!ATTLIST XMI.difference
        %XMI.element.att;
        %XMI.link.att;
>


<!-- ____________________________________________________________ -->
<!--                                                              -->
<!-- XMI.delete represents a deletion from a base model           -->
<!-- ____________________________________________________________ -->

<!ELEMENT XMI.delete EMPTY >
<!ATTLIST XMI.delete
        %XMI.element.att;
        %XMI.link.att;
>

<!-- ____________________________________________________________ -->
<!--                                                              -->
<!-- XMI.add represents an addition to a base model               -->
```

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```
<!-- ____________________________________________________ -->

<!ELEMENT XMI.add ANY >
<!ATTLIST XMI.add
        %XMI.element.att;
        %XMI.link.att;
        xmi.position CDATA "-1"
>

<!-- ____________________________________________________ -->
<!--                                                      -->
<!-- XMI.replace represents the replacement of a model construct -->
<!-- with another model construct in a base model         -->
<!-- ____________________________________________________ -->

<!ELEMENT XMI.replace ANY >
<!ATTLIST XMI.replace
        %XMI.element.att;
        %XMI.link.att;
        xmi.position CDATA "-1"
>

<!-- ____________________________________________________ -->
<!--                                                      -->
<!-- XMI.reference may be used to refer to data types not defined in -->
<!-- the metamodel                                        -->
<!-- ____________________________________________________ -->

<!ELEMENT XMI.reference ANY >
<!ATTLIST XMI.reference
        %XMI.link.att;
>

<!-- ____________________________________________________ -->
<!--                                                      -->
<!-- This section contains the declaration of XML elements -->
<!-- representing data types                              -->
<!-- ____________________________________________________ -->

<!ELEMENT XMI.TypeDefinitions ANY >

<!ELEMENT XMI.field ANY >

<!ELEMENT XMI.seqItem ANY >

<!ELEMENT XMI.octetStream (#PCDATA) >
```

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```
<!ELEMENT XMI.unionDiscrim ANY >

<!ELEMENT XMI.enum EMPTY >
<!ATTLIST XMI.enum
        xmi.value CDATA #REQUIRED
>

<!ELEMENT XMI.any ANY >
<!ATTLIST XMI.any
        %XMI.link.att;
        xmi.type CDATA #IMPLIED
        xmi.name CDATA #IMPLIED
>

<!ELEMENT XMI.CorbaTypeCode (XMI.CorbaTcAlias | XMI.CorbaTcStruct |
                    XMI.CorbaTcSequence | XMI.CorbaTcArray |
                    XMI.CorbaTcEnum | XMI.CorbaTcUnion |
                    XMI.CorbaTcExcept | XMI.CorbaTcString |
                    XMI.CorbaTcWstring | XMI.CorbaTcShort |
                    XMI.CorbaTcLong | XMI.CorbaTcUshort |
                    XMI.CorbaTcUlong | XMI.CorbaTcFloat |
                    XMI.CorbaTcDouble | XMI.CorbaTcBoolean |
                    XMI.CorbaTcChar | XMI.CorbaTcWchar |
                    XMI.CorbaTcOctet | XMI.CorbaTcAny |
                    XMI.CorbaTcTypeCode | XMI.CorbaTcPrincipal |
                    XMI.CorbaTcNull | XMI.CorbaTcVoid |
                    XMI.CorbaTcLongLong |
                    XMI.CorbaTcLongDouble) >
<!ATTLIST XMI.CorbaTypeCode
        %XMI.element.att;
>

<!ELEMENT XMI.CorbaTcAlias (XMI.CorbaTypeCode) >
<!ATTLIST XMI.CorbaTcAlias
        xmi.tcName CDATA #REQUIRED
        xmi.tcId   CDATA #IMPLIED
>

<!ELEMENT XMI.CorbaTcStruct (XMI.CorbaTcField)* >
<!ATTLIST XMI.CorbaTcStruct
        xmi.tcName CDATA #REQUIRED
        xmi.tcId   CDATA #IMPLIED
>

<!ELEMENT XMI.CorbaTcField (XMI.CorbaTypeCode) >
```

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```
<!ATTLIST XMI.CorbaTcField
        xmi.tcName CDATA #REQUIRED
>

<!ELEMENT XMI.CorbaTcSequence (XMI.CorbaTypeCode |
                XMI.CorbaRecursiveType) >
<!ATTLIST XMI.CorbaTcSequence
        xmi.tcLength CDATA #REQUIRED
>

<!ELEMENT XMI.CorbaRecursiveType EMPTY >
<!ATTLIST XMI.CorbaRecursiveType
        xmi.offset CDATA #REQUIRED
>

<!ELEMENT XMI.CorbaTcArray (XMI.CorbaTypeCode) >
<!ATTLIST XMI.CorbaTcArray
        xmi.tcLength CDATA #REQUIRED
>

<!ELEMENT XMI.CorbaTcObjRef EMPTY >
<!ATTLIST XMI.CorbaTcObjRef
        xmi.tcName CDATA #REQUIRED
        xmi.tcId   CDATA #IMPLIED
>

<!ELEMENT XMI.CorbaTcEnum (XMI.CorbaTcEnumLabel) >
<!ATTLIST XMI.CorbaTcEnum
        xmi.tcName CDATA #REQUIRED
        xmi.tcId   CDATA #IMPLIED
>

<!ELEMENT XMI.CorbaTcEnumLabel EMPTY >
<!ATTLIST XMI.CorbaTcEnumLabel
        xmi.tcName CDATA #REQUIRED
>

<!ELEMENT XMI.CorbaTcUnionMbr (XMI.CorbaTypeCode, XMI.any) >
<!ATTLIST XMI.CorbaTcUnionMbr
        xmi.tcName CDATA #REQUIRED
>

<!ELEMENT XMI.CorbaTcUnion (XMI.CorbaTypeCode, XMI.CorbaTcUnionMbr*) >
<!ATTLIST XMI.CorbaTcUnion
        xmi.tcName CDATA #REQUIRED
        xmi.tcId   CDATA #IMPLIED>
```

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```
<!ELEMENT XMI.CorbaTcExcept (XMI.CorbaTcField)* >
<!ATTLIST XMI.CorbaTcExcept
        xmi.tcName CDATA #REQUIRED
        xmi.tcId   CDATA #IMPLIED
>

<!ELEMENT XMI.CorbaTcString EMPTY >
<!ATTLIST XMI.CorbaTcString
        xmi.tcLength CDATA #REQUIRED
>

<!ELEMENT XMI.CorbaTcWstring EMPTY >
<!ATTLIST XMI.CorbaTcWstring
        xmi.tcLength CDATA #REQUIRED
>

<!ELEMENT XMI.CorbaTcFixed EMPTY >
<!ATTLIST XMI.CorbaTcFixed
        xmi.tcDigits CDATA #REQUIRED
        xmi.tcScale  CDATA #REQUIRED
>

<!ELEMENT XMI.CorbaTcShort EMPTY >

<!ELEMENT XMI.CorbaTcLong EMPTY >

<!ELEMENT XMI.CorbaTcUshort EMPTY >

<!ELEMENT XMI.CorbaTcUlong EMPTY >

<!ELEMENT XMI.CorbaTcFloat EMPTY >

<!ELEMENT XMI.CorbaTcDouble EMPTY >

<!ELEMENT XMI.CorbaTcBoolean EMPTY >

<!ELEMENT XMI.CorbaTcChar EMPTY >

<!ELEMENT XMI.CorbaTcWchar EMPTY >

<!ELEMENT XMI.CorbaTcOctet EMPTY >

<!ELEMENT XMI.CorbaTcAny EMPTY >

<!ELEMENT XMI.CorbaTcTypeCode EMPTY >
```

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```
<!ELEMENT XMI.CorbaTcPrincipal EMPTY >
<!ELEMENT XMI.CorbaTcNull EMPTY >
<!ELEMENT XMI.CorbaTcVoid EMPTY >
<!ELEMENT XMI.CorbaTcLongLong EMPTY >
<!ELEMENT XMI.CorbaTcLongDouble EMPTY >

<!-- ____________________________________________________ -->
<!--                                                      -->
<!-- METAMODEL:  macro                                    -->
<!--                                                      -->
<!-- ____________________________________________________ -->


<!-- ____________________________________________________ -->
<!--                                                      -->
<!-- METAMODEL CLASS:  ApplicationControlMacro            -->
<!--                                                      -->
<!-- ____________________________________________________ -->

<!ELEMENT ApplicationControlMacro.ResidencyOption EMPTY >
<!ATTLIST ApplicationControlMacro.ResidencyOption
        xmi.value ( Resident | DynamicOption ) #REQUIRED
>

<!ELEMENT ApplicationControlMacro.isFPath EMPTY >
<!ATTLIST ApplicationControlMacro.isFPath
        xmi.value ( False | True ) #REQUIRED
>

<!ELEMENT ApplicationControlMacro.FPathBufferSize (#PCDATA |
                                XMI.reference)* >

<!ELEMENT ApplicationControlMacro.GeneratedPSBName (#PCDATA |
                                XMI.reference)* >

<!ELEMENT ApplicationControlMacro.GeneratedPSBLanguage EMPTY >
<!ATTLIST ApplicationControlMacro.GeneratedPSBLanguage
        xmi.value ( Assembler | COBOL | PL1 | PLI | Pascal ) #REQUIRED
>

<!ELEMENT ApplicationControlMacro.ProgramType EMPTY >
<!ATTLIST ApplicationControlMacro.ProgramType
        xmi.value ( TeleProcessing | Batch ) #REQUIRED
```


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```
>

<!ELEMENT ApplicationControlMacro.ProgramClass (#PCDATA |
                                XMI.reference)* >

<!ELEMENT ApplicationControlMacro.PSBName (#PCDATA | XMI.reference)* >

<!ELEMENT ApplicationControlMacro.ScheduleType EMPTY >
<!ATTLIST ApplicationControlMacro.ScheduleType
        xmi.value ( Serial | Parallel ) #REQUIRED
>

<!ELEMENT ApplicationControlMacro.SysIDRemote (#PCDATA |
                                XMI.reference)* >

<!ELEMENT ApplicationControlMacro.SysIDLocal (#PCDATA |
                                XMI.reference)* >

<!ELEMENT ApplicationControlMacro.TRANSACT (TransactionControlMacro)* >

<!ELEMENT ApplicationControlMacro (ApplicationControlMacro.ResidencyOption?,
                        ApplicationControlMacro.isFPath?,
                        ApplicationControlMacro.FPathBufferSize?,
                        ApplicationControlMacro.GeneratedPSBName?,
                        ApplicationControlMacro.GeneratedPSBLanguage?,
                        ApplicationControlMacro.ProgramType?,
                        ApplicationControlMacro.ProgramClass?,
                        ApplicationControlMacro.PSBName?,
                        ApplicationControlMacro.ScheduleType?,
                        ApplicationControlMacro.SysIDRemote?,
                        ApplicationControlMacro.SysIDLocal?,
                        XMI.extension*,
                        ApplicationControlMacro.TRANSACT*)? >
<!ATTLIST ApplicationControlMacro
        %XMI.element.att;
        %XMI.link.att;
>

<!-- ____________________________________________________________ -->
<!--                                                              -->
<!-- METAMODEL CLASS:  TransactionControlMacro                    -->
<!-- ____________________________________________________________ -->

<!ELEMENT TransactionControlMacro.TransactionCode (#PCDATA |
                                XMI.reference)* >
```

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```
<!ELEMENT TransactionControlMacro.isDCLogWriteAhead EMPTY >
<!ATTLIST TransactionControlMacro.isDCLogWriteAhead
        xmi.value ( False | True ) #REQUIRED
>

<!ELEMENT TransactionControlMacro.toUpperCase EMPTY >
<!ATTLIST TransactionControlMacro.toUpperCase
        xmi.value ( False | True ) #REQUIRED
>

<!ELEMENT TransactionControlMacro.EditRoutine (#PCDATA |
                        XMI.reference)* >

<!ELEMENT TransactionControlMacro.isFPath EMPTY >
<!ATTLIST TransactionControlMacro.isFPath
        xmi.value ( False | True ) #REQUIRED
>

<!ELEMENT TransactionControlMacro.FPathBufferSize (#PCDATA |
                        XMI.reference)* >

<!ELEMENT TransactionControlMacro.isInquiry EMPTY >
<!ATTLIST TransactionControlMacro.isInquiry
        xmi.value ( False | True ) #REQUIRED
>

<!ELEMENT TransactionControlMacro.isRecover EMPTY >
<!ATTLIST TransactionControlMacro.isRecover
        xmi.value ( False | True ) #REQUIRED
>

<!ELEMENT TransactionControlMacro.MaxRegions (#PCDATA |
                        XMI.reference)* >

<!ELEMENT TransactionControlMacro.Mode EMPTY >
<!ATTLIST TransactionControlMacro.Mode
        xmi.value ( MultipleMessage | SingleMessage ) #REQUIRED
>

<!ELEMENT TransactionControlMacro.MessageType EMPTY >
<!ATTLIST TransactionControlMacro.MessageType
        xmi.value ( MultipleSegment | SingleSegment ) #REQUIRED
>

<!ELEMENT TransactionControlMacro.MessageIsResponse EMPTY >
```

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```
<!ATTLIST TransactionControlMacro.MessageIsResponse
        xmi.value ( Response | NonResponse ) #REQUIRED
>

<!ELEMENT TransactionControlMacro.MessageClass (#PCDATA |
                                XMI.reference)* >

<!ELEMENT TransactionControlMacro.ParallelLimit (#PCDATA |
                                XMI.reference)* >

<!ELEMENT TransactionControlMacro.ProcessLimitCount (#PCDATA |
                                XMI.reference)* >

<!ELEMENT TransactionControlMacro.ProcessLimitSeconds (#PCDATA |
                                XMI.reference)* >

<!ELEMENT TransactionControlMacro.PriorityNormal (#PCDATA |
                                XMI.reference)* >

<!ELEMENT TransactionControlMacro.PriorityLimit (#PCDATA |
                                XMI.reference)* >

<!ELEMENT TransactionControlMacro.PriorityLimitCount (#PCDATA |
                                XMI.reference)* >


<!ELEMENT TransactionControlMacro.isRouting EMPTY >
<!ATTLIST TransactionControlMacro.isRouting
        xmi.value ( False | True ) #REQUIRED
>

<!ELEMENT TransactionControlMacro.ScheduleOption (#PCDATA |
                                XMI.reference)* >

<!ELEMENT TransactionControlMacro.SegmentNumber (#PCDATA |
                                XMI.reference)* >

<!ELEMENT TransactionControlMacro.SegmentSize (#PCDATA |
                                XMI.reference)* >

<!ELEMENT TransactionControlMacro.isSerial EMPTY >
<!ATTLIST TransactionControlMacro.isSerial
        xmi.value ( False | True ) #REQUIRED
>

<!ELEMENT TransactionControlMacro.SPASize (#PCDATA | XMI.reference)* >
```

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```
<!ELEMENT TransactionControlMacro.SPAIsTruncated EMPTY >
<!ATTLIST TransactionControlMacro.SPAIsTruncated
        xmi.value ( False | True ) #REQUIRED
>

<!ELEMENT TransactionControlMacro.SysIDRemote (#PCDATA |
                                XMI.reference)* >

<!ELEMENT TransactionControlMacro.SysIDLocal (#PCDATA |
                                XMI.reference)* >

<!ELEMENT TransactionControlMacro.isWaitForInput EMPTY >
<!ATTLIST TransactionControlMacro.isWaitForInput
        xmi.value ( False | True ) #REQUIRED
>

<!ELEMENT TransactionControlMacro.APPLCTN (ApplicationControlMacro)? >

<!ELEMENT TransactionControlMacro (TransactionControlMacro.TransactionCode?,
                        TransactionControlMacro.isDCLogWriteAhead?,
                        TransactionControlMacro.toUpperCase?,
                        TransactionControlMacro.EditRoutine?,
                        TransactionControlMacro.isFPath?,
                        TransactionControlMacro.FPathBufferSize?,
                        TransactionControlMacro.isInquiry?,
                        TransactionControlMacro.isRecover?,
                        TransactionControlMacro.MaxRegions?,
                        TransactionControlMacro.Mode?,
                        TransactionControlMacro.MessageType?,
                        TransactionControlMacro.MessageIsResponse?,
                        TransactionControlMacro.MessageClass?,
                        TransactionControlMacro.ParallelLimit?,
                        TransactionControlMacro.ProcessLimitCount?,
                        TransactionControlMacro.ProcessLimitSeconds?,
                        TransactionControlMacro.PriorityNormal?,
                        TransactionControlMacro.PriorityLimit?,
                        TransactionControlMacro.PriorityLimitCount?,
                        TransactionControlMacro.isRouting?,
                        TransactionControlMacro.ScheduleOption?,
                        TransactionControlMacro.SegmentNumber?,
                        TransactionControlMacro.SegmentSize?,
                        TransactionControlMacro.isSerial?,
                        TransactionControlMacro.SPASize?,
                        TransactionControlMacro.SPAIsTruncated?,
                        TransactionControlMacro.SysIDRemote?,
```

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```
                    TransactionControlMacro.SysIDLocal?,
                    TransactionControlMacro.isWaitForInput?,
                    XMI.extension*,
                    TransactionControlMacro.APPLCTN?)? >
<!ATTLIST TransactionControlMacro
        %XMI.element.att;
        %XMI.link.att;
>

<!ELEMENT macro ((ApplicationControlMacro | TransactionControlMacro)*) >
<!ATTLIST macro
        %XMI.element.att;
        %XMI.link.att;
>
```

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